Wellesley College.

CALENDAR.

1884-'85.

Wellesley College.

Tenth Annual

✣ CALENDAR ✣

1884-85.

Announcements.

		1885.
College Exercises resumed after Holiday Vacation	Wednesday,	January 7.
Day of Prayer for Colleges	Thursday,	January 29.
Winter Term ends	Wednesday,	March 25.
Spring Term begins	Thursday,	April 9.
Entrance Examinations	Thursday, Friday,	June 18, 19.
COMMENCEMENT	Tuesday,	June 23.
Alumnæ Day	Wednesday,	June 24.

COLLEGIATE YEAR 1885–86.

Entrance Examinations begin	Wednesday,	September 9.
Fall Term begins	Thursday,	September 10.
Thanksgiving Recess, to Monday evening following	Wednesday noon,	November 25.
Fall Term ends	Tuesday,	December 22.
		1886
Winter Term begins	Wednesday,	January 6.
Day of Prayer for Colleges	Thursday,	January 28.
Winter Term ends	Wednesday,	March 24
Spring Term begins	Thursday,	April 8.
Entrance Examinations	Thursday, Friday,	June 17, 18.
COMMENCEMENT	Tuesday,	June 22.
Alumnæ Day	Wednesday,	June 23

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The Theory of Knowledge and Basis of the Christian Evidences.

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Geology.

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Wellesley College.

WELLESLEY COLLEGE was established to furnish young women who desire to obtain a liberal education, such advantages and facilities as are enjoyed in institutions of the highest grade.

By the charter, "the corporation of Wellesley College is authorized to grant such honorary testimonials, and confer such honors, degrees, and diplomas, as are granted or conferred by any University, College, or Seminary of learning in this Commonwealth; and the diplomas so granted shall entitle the possessors to the immunities and privileges allowed, by usage or statute, to the possessors of like diplomas from any University, College, or Seminary of learning in this Commonwealth."

The College is undenominational, but distinctively and positively Christian, in its influence, discipline, and instruction. The systematic study of the Bible is pursued through all the courses. Worship in the chapel is attended daily by teachers and students. The Sunday services are conducted by ministers of different denominations.

Wellesley is on the Boston and Albany Railroad, fifteen miles west of Boston. The town is known as the most healthful in Massachusetts, and is entirely free from malaria. The College grounds include more than three hundred acres, and give ample opportunity for exercise and recreation. The lake affords a most attractive place for boating in summer, and skating in winter.

Students may room in a large or small building, according to preference. The College accommodates three hundred and thirty-six; Stone Hall, with its single apartments and four dining-halls, one hundred and ten; Simpson and Waban Cottages furnish quiet homes for thirty. Elevators are in constant use in the large buildings. Advanced students who desire can obtain board in the village.

The health of the family is considered of primary importance. In the construction of the buildings this was constantly in view. Everything possible has been done to give an abundance of light, sunshine, fresh air, and pure water. All the rooms are thoroughly furnished, and supplied with gas and student-lamps. Fresh air is admitted into the basement, and after being heated by contact with steam radiators and charged with moisture by the addition of a prescribed quantity of steam, passes into the rooms through hot-air flues. By means of the registers, the temperature is regulated by the students as they desire. The ventilation is a remarkable success. All the

buildings are supplied with hot and cold water. In order to prevent the possibility of harm from impurities in surface water, Artesian wells have been driven. The drainage, natural and artificial, is faultless. The College, Stone Hall, and Simpson Cottage are located on hills, and the ground slopes from them in every direction, so that stagnant water and dampness are impossible.

A lady physician resides in the College, and gives her personal attention to the arrangements connected with health. She has constant intercourse with the students, and instructs them in the laws of hygiene. They are urged to consult her freely. A resident nurse cares for the sick under the physician's direction. No charge is made for attendance or medicine except in cases of protracted illness. A hospital, which can be shut off from the rest of the building, is provided for those who need extra care.

East Lodge.

Requirements for Admission.

CANDIDATES for admission must be at least sixteen years of age, and must present satisfactory evidence of good moral character and good health, with credentials from their last instructor, or from the institution where they last studied. These certificates must be forwarded to the President before the student can be received.

No preparatory department is connected with the College.

FOR THE FRESHMAN CLASS IN THE CLASSICAL COURSE.

Students must pass satisfactory examinations in the following studies, unless admitted on certificate: —

1. ENGLISH: —

Rhetoric. — The elements of Rhetoric, including "Choice of Words," "Construction of Sentences," and "Figures of Speech."

Composition. — Each candidate will be required to write an essay on one of three subjects to be assigned at the time of the examination, covering not less than two pages (foolscap), correct in punctuation, capital letters, spelling, and grammar, and showing proficiency in the principles of Rhetoric named above.

In September, 1885, the subjects will be taken from the following works: Scott's "Marmion," Shakspere's "The Tempest," Dickens's "Old Curiosity Shop," Kingsley's "Westward Ho!" Macaulay's "Essay on Milton."

The subject for September, 1886, will be taken from the following works: Dickens's "Bleak House," Longfellow's "The Courtship of Miles Standish," Tennyson's "The Princess," or from the historical period of the Revolutionary War.

Many students who seek admission to the College are found to be deficient in their preparation in English. In order to meet the requirements of the College in this respect, candidates must be familiar with English Grammar, the elementary principles of Rhetoric, and must have had frequent practice in Composition during the last years of the preparatory course. For text-book, A. S. Hill's "Principles of Rhetoric," or Hart's "Composition and Rhetoric," is recommended."

2. GEOGRAPHY: —

Guyot's Physical Geography, Parts II. and III., or an equivalent. Modern Geography. Ancient Geography, especially of Greece, Italy, and Asia Minor.

3. HISTORY: —

The History of the United States to the close of the Revolutionary War; Smith's History of Greece to the Peloponnesian War; Merivale's or Leighton's History of Rome to the Augustan Age. History of the Jews, as found in Genesis and Exodus; Smith's Old Testament History, Books I., II., and III., exclusive of Notes and Appendix, will indicate the amount expected.

4. MATHEMATICS: —

Arithmetic.— Fundamental Rules, Common and Decimal Fractions, Compound Numbers, Proportion, Percentage, Square and Cube Root, and the Metric System of Weights and Measures.

Algebra.— Through Involution, Evolution, Radicals, Quadratic Equations, Ratio, Proportion, Arithmetical and Geometrical Progression.

Plane Geometry.— As found in Chauvenet, or its equivalent.

Deficiency in preparation has, in a majority of cases, resulted from using elementary text-books; in others, from neglecting to review all the preparatory mathematics when their study has been for some time discontinued. To meet the first-mentioned cases of failure, we would suggest that Olney's Complete School Algebra should be used as the text-book, and that additional examples drawn from Olney's University Algebra should be given as test-work. When this is not practicable, some *standard University Algebra* should serve as equivalent. In Geometry, we would recommend Chauvenet's, Olney's, Wentworth's, or Newcomb's.

To all who have dropped their Mathematical studies for any length of time, we would strongly emphasize the necessity of a careful review of the whole work, with test examinations. We find those candidates most successful whose knowledge of subjects passed over has been frequently tested by written examinations (the exercises proposed being drawn from other sources than the text-book), and who in Geometry have had some exercise in original demonstration.

5. Latin : —

Latin Grammar, including Prosody.

Jones's Exercises in Latin Prose Composition entire, or an equivalent in Arnold, Allen and Greenough, or Harkness.

Cæsar, Gallic War, four books.

Cicero, seven orations.

Virgil, Æneid, six books.

Equivalents in Latin will be accepted; but verse will not be accepted for prose, nor anything in place of Prose Composition.

The following suggestions are offered for a four years' course of preparation : —

The first year may be given to Jones's First Lessons in Latin; the second to Cæsar (four books), and to the first half of Jones's Exercises in Latin Prose Composition; the third year may be given to seven orations of Cicero and the second half of the Prose Composition; and the fourth to six books of Virgil and the careful study of rules of Prosody, accompanied by such exercises in transposition of verses as will make these rules familiar.

In pronunciation, the following rules are adopted: ā as in father; ă as in fast; ē as in there; ĕ as in met; ī as in machine; ĭ as in piano; ō as in holy; ŏ as in wholly; ū as in rule; ŭ as in puss; c, g, and ch always hard; j like y in you; s as in sill; t as in till; v somewhat softened. In diphthongs the sound of each vowel is preserved.

6. Greek : —

Greek Grammar.

Jones's Greek Prose Composition entire, with the accents.

Xenophon, Anabasis, three books.

Homer, Iliad, three books.

The text-books recommended are: for the first year, either Hadley's Grammar, with Boise's First Lessons in Greek, or Goodwin's Grammar, with White's First Lessons in Greek; for the second and third years, Boise's first three Books of Xenophon's Anabasis, Jones's Exercises in Greek Prose, and Boise's or Keep's Iliad. Attention is invited to the suggestions in the prefaces of the above books upon the carefully written preparation of exercise work, the oral class drill upon forms and sentences, and the constant use of the blackboard for practice upon forms, and for writing sentences from dictation.

The following pronunciation is recommended: *α* as a in father; *η* as e in prey; *ι* as i in machine; *ω* as o in prone; *υ* as u in prune The short vowels should be merely somewhat

shorter than the corresponding long vowels; *αι* as ay in aye; *ει* as ei in height; *οι* as oi in oil; *υι* as ui in quit; *αυ* as ou in house; *ευ* as eu in feud; *ου* as ou in youth; *γ* before *κ*, *γ*, *χ*, *ξ*, as n in anger, elsewhere hard; *ϑ* as th in thin; *χ*, guttural, as ch in German, *machen*.

FOR THE FRESHMAN CLASS IN THE SCIENTIFIC COURSE,

the requirements in English, Geography, History, Mathematics, and Latin are the same as for the Classical Course. Instead of Greek, the candidate must be prepared in either French or German, or both. If French only is presented, she must be prepared upon

Bocher's or Sauveur's Grammar.

Sauveur's Causeries avec mes Elèves.

Six of La Fontaine's Fables, committed to memory.

Two Modern Plays, Scribe's or Feuillet's.

Hennequin's Idiomatic French and Roulier's Translations into French.

Mme. Alliot's Auteurs Contemporains.

Two Classic Plays, Molière's or Racine's, and Picciola, by Saintine.

The candidate will be expected to be thoroughly familiar with the formation and use of French verbs, and to have given special attention to composition and conversation.

If German only is presented, she must be prepared upon

Deutsche Grammatik für Amerikaner, by Wenckebach-Schrakamp, and Prose Composition.

Das deutsche Buch, by Van Daell-Schrakamp.

Anderson's Märchen, Immensee by Storm, Undine by Fouqué.

Der Neffe als Onkel, by Schiller.

Minna von Barnhelm, by Lessing.

Zriny, by Körner.

Equivalents will be accepted; but all the works which are read must be made the subject of conversation in German.

From the beginning, special attention must be given to conversation and composition, as German text-books are used, and recitations are conducted entirely in German. The standard of pronunciation adopted is the Hanoverian.

The full preparation in either French or German should cover a period of, at least, two years, five recitations per week, or three years, three reci-

tations per week. This work should not be crowded into a shorter time, and should be done under competent teachers.

If both French and German are presented, the student must be qualified upon the Grammars and simple Prose Composition, and read easy French and German at sight. Half the amount of reading specified in each language, will be required.

ADMISSION TO ADVANCED STANDING.

Candidates for advanced standing must meet the requirements for admission to the Freshman class, and must also be examined in the required studies previously pursued by the class which they wish to join, and in a sufficient number of electives to give full standing with that class.

Students from Colleges of equal requirements may present certificates for the consideration of the Faculty in connection with the examinations.

EXAMINATIONS.

Examinations for admission to the Freshman or higher classes may be taken in June or in September. Candidates are permitted to take preliminary examinations in Rhetoric, Physical and Modern Geography, United States History, Arithmetic, Cæsar and the Anabasis, in June or September, one year before they enter College.

ADMISSION ON CERTIFICATE.

Certificates will be accepted from instructors, and from schools whose methods and courses of study are satisfactory to the College authorities. Teachers who desire to send students on certificates, should apply to the College for blank forms, which must be filled out *in full*. No certificate will be accepted unless the arrangement has been seasonably made, and the certificate is approved by the Professors in charge of the examinations. No partial certificates will be accepted unless the candidate is prepared, at the time of entrance examinations, to be examined in the subjects not cov-

ered by certificate. A certificate must state the amount of work done in each study; the time given to each language and to each branch of mathematics; and the date when the candidate satisfactorily passed examinations *in all the studies* required for admission to the Freshman class. Examinations in Rhetoric, Physical and Modern Geography, United States History, Arithmetic, Cæsar and the Anabasis, may be given not earlier than June of the year before entering: in all other studies examinations must be given *within a year*. All are requested, in doubtful cases, to throw the responsibility upon the College.

If, at the end of the first term, it is found that a student has been so imperfectly prepared in any study that she cannot satisfactorily continue it, she cannot be retained in the class.

All certificates *must* be sent by the teachers to the President, *before the first of August*.

Stone Hall.

Stone Hall is especially designed for graduate students of this and other colleges, and for teachers and special students who are pursuing advanced elective courses. It accommodates one hundred and ten, chiefly in single apartments, and has small dining-rooms, instead of the usual large dining-hall.

Admission as Special Students.

I. Special opportunities are offered to those who have taught, and who wish to pursue advanced lines of study, and avail themselves of modern methods of instruction and the use of libraries and laboratories.

Such candidates must furnish certificates of character, of health, and of qualification to pursue in the regular classes the studies which they select; and, after admission, must show diligence and scholarship satisfactory to the Faculty, as the condition of their continuance in the College. They may take such studies as they prefer in any of the College classes, giving their whole time, if they wish, to a single branch. Thus one may choose one of the ancient, or one of the modern languages, or mathematics, or one of the sciences, or history, or literature, and give all her strength to that study, reciting daily in three different classes. It is desirable, however, that those who wish to devote their time to science, should spend two years at the College, and select their courses and classes accordingly. A special course of instruction in the use of the Compound Microscope is given.

Special lectures may also be expected from educators of experience and repute.

II. Other candidates for special courses must be at least eighteen years of age, and must present satisfactory certificates of character, of health, and of ability to pursue in the regular classes the studies which they select. None will be admitted who have not taken an amount of work equivalent to that required for admission to the Freshman class. There is no opportunity to do preparatory work, and no classes will be formed for the special instruction of students who are not candidates for a degree. Ten class exercises per week is the minimum, and seventeen the maximum, amount of work allowed. The studies chosen are subject to the approval of the President.

Any student who completes with great credit the full "Course of Instruction" offered in two or more Departments, may become a candidate for a Certificate.

After candidates for the Freshman class, and graduate-students, have been received, special students will be accepted, so far as the accommodations of the College will allow. Definite answer to such applications will be given as *early as the first of August.*

Board can be obtained in private families in the town, at prices ranging from four to seven dollars per week.

Candidates are received at any time to fill vacancies.

Courses of Study.

All the regular College Courses extend through four or five years. Evidence of satisfactory scholarship will be insisted upon in all studies, required or elective, as the condition of advancement, or of the attainment of a degree. In the Freshman year all the studies are required, except that Latin may take the place of one modern language in the Scientific Course.

After the Freshman year, students may specialize their work by electing Greek and Latin, or Mathematics, or French and German, or Science, throughout the course. All candidates for a degree must take, in addition to the required studies, a sufficient number of electives to give sixteen exercises per week during the Sophomore, and fifteen during the Junior and Senior, years. Eighteen exercises per week may be allowed, in exceptional cases, in the Junior year, by vote of the Heads of Departments. Music, Drawing, Painting, and Elocution are open to Juniors and Seniors in the regular four years' course.

The College reserves the right to withdraw the offer of any elective study not chosen by at least six students. In the following courses of study are printed only those electives in which classes have been instructed during the past two years. Additional electives will be provided as need arises.

Free instruction in Music or Art will be given in the Musical and Art courses to those who enter the *Freshman class* in the *Classical Course unconditioned.*

Courses of Study for 1884-85.

FRESHMAN YEAR.

	CLASSICAL COURSE.	SCIENTIFIC COURSE.
FIRST TERM.	*Latin.*— Livy, Book XXI. *4 *Greek.*— Odyssey: selections. 4 *Mathematics.*— Solid and Spherical Geometry (Chauvenet). 4 *History.*— Lectures on Roman Empire. 1 *Literature.*— Lectures on Nineteenth Century Authors. 1 *Drawing.*— Freehand and Modeling. 1 *Bible and Ethics.* 2 Lectures on Greek and Roman Literature will be given throughout this course. Lectures on Physiology and Hygiene. *Elocution.* 1	*Mathematics.*— Solid and Spherical Geometry (Chauvenet). 4 *French.*† — Lit. du XVI. siècle, Molière, Corneille. 3 *German.*† — Schiller's Leben und Werke. Conversation and Essays. 3 *Chemistry.*— Theoretical Chemistry, with laboratory practice. 3 *History.*— Lectures on Roman Empire. 1 *Literature.*— Lectures on Nineteenth Century Authors. 1 *Drawing.*— Freehand and Modeling. 1 *Bible and Ethics.* 2 Lectures on Physiology and Hygiene. *Elocution.* 1
SECOND TERM.	*Latin.*— Prose Composition. 4 *Greek.*— Herodotus: selections. 4 *Mathematics.*— Advanced Algebra. 4 *Bible and Ethics.* 2 *History.*— Rise of the New Nations. 1 *Literature.*— Lectures continued. 1 *Drawing.*— Geometrical. 1 *Elocution.* 1	*Mathematics.*— Advanced Algebra. 4 *French.* — Lit. Française du XVI. siècle, Racine, Molière, Essays and Criticism. 3 *German.* — Schiller's Leben und Werke. Conversation and Essays. 3 *Chemistry.* — Study of Elements and their important compounds, with laboratory practice. 3 *Bible and Ethics.* 2 *Hist., Lit., and Geometrical Drawing.* *Elocution.* 1
THIRD TERM.	*Latin.* — Tacitus: Germania and Agricola. Letters of Cicero: selections. 4 *Greek.* — Plato: Apology and Crito. 4 *Mathematics.*—Plane Trigonometry (Chauvenet). 4 *History.* — Early Mediæval Institutions. 1 *Literature.* — Continued. 1 *Drawing.* — Perspective. 1 *Bible and Ethics.* 2 *Elocution.* 1	*Mathematics.*—Plane Trigonometry (Chauvenet). 4 *French.* — Lit. Française du XVII. siècle, Lettres, Fables, English into French. 3 *German.* — Schiller's Leben und Werke. Conversation and Essays. 3 *Chemistry.* — Second Term's work cont'd. 3 *History.* — Early Mediæval Institutions. 1 *Literature.* — Continued. 1 *Drawing.* — Perspective. 1 *Bible and Ethics.* 2 *Elocution.* 1

* Numerals indicate the number of class exercises per week.

† Latin may be substituted for either French or German throughout the year.

SOPHOMORE YEAR.

	CLASSICAL COURSE.	SCIENTIFIC COURSE.
FIRST TERM.		
ELECTIVES.	*Chemistry.* — Theoretical, with laboratory practice. 4	*Spherical Trigonometry.* — (Chauvenet); Analytical Geom. begun (Puckle). 4
	Rhetoric. — Structure of the Essay, Narration, Exercises, and two Essays. 1	*French.**—Lit. Française du XVII. siècle, Pascal, English into French. 3
	Bible. — History of Jewish Church. 2	*German.** — Goethe's Leben und Werke, Literatur vom Anfang bis Klopstock. 3
	*Latin.**— Horace: Odes, selected. 3	*Geology.*† 3
	*Greek.** — Prose Composition. 3	*Botany.*† — General Morphology, with laboratory work. 3
	Spherical Trigonometry. — (Chauvenet); Analytical Geom. begun (Puckle). 3	*Rhetoric.* — Structure of the Essay, Narration Exercises, and two Essays. 1
	Political History of England. 3	*Bible.* — History of Jewish Church. 2
	French.† 3	*Political History of England.* 3
	German.† 3	
SECOND TERM.		
ELECTIVES.	*Chemistry.* — Elements and important compounds, with laboratory practice. 4	*Analytical Geometry* (Puckle), continued. 4
	Rhetoric. — Description, Exposition, Exercises, two Essays. 1	*French.* — Littérature du XVII. siècle, Corneille, Racine, Molière, Descartes, Mme. de Sévigné. 3
	Bible. — History of Jewish Church. 2	*German.* — Goethe's Leben und Werke, Literatur vom Anfang bis Klopstock. 3
	Latin. — Prose Composition. 3	*Mineralogy.*† 3
	Greek. — Demosthenes: select Orations. 3	*Botany.* — Continued. 3
	Mathematics.— Analytical Geom. (Puckle), continued. 3	*Rhetoric.* — Description, Exposition, Exercises, two Essays. 1
	Political History of England. 3	*Bible.* — History of Jewish Church. 2
	French. 3	*Political History of England.* 3
	German. 3	
THIRD TERM.		
ELECTIVES.	*Literature.*— Mediæval Epics, Early Mod. Literature, History of English Literature. 4	*French.* — Littérature du XVII. siècle, Essay and Criticism. 3
	Rhetoric.— Exposition, Figures of Speech, two Essays. 1	*German.* — Goethe's Leben und Werke, Literatur vom Anfang bis Klopstock. 3
	Bible. — History of Jewish Church. 2	*Lithology.*† 3
	Latin. — Horace: Satires and Epistles, selections. 3	*Botany.* — General Morphology, with lab. work, and making a Herbarium. 3
	Greek. — Thucydides: selections. 3	*Literature.*— Mediæval Epics, Early Mod. Lit., History of English Literature. 4
	Mathematics. — Analytical Geometry, continued. 3	*Rhetoric.*— Exposition, Figures of Speech, two Essays. 1
	History of France. 3	*Bible.* — History of Jewish Church. 2
	French. 3	*History of France.* — Elective. 3
	German. 3	

* Candidates for the degree of B.A. must elect either Greek or Latin in the Sophomore Year.

† Since the Modern Languages are elective throughout this Course, students can begin the study of French and German here, or can join any advanced class for which they are fitted.

* Latin may be substituted for either French or German throughout the year.

† Botany may be substituted for Mineralogy, Geology, and Lithology. For work, see Scientific Course.

JUNIOR YEAR.

FIRST TERM.

CLASSICAL COURSE.		SCIENTIFIC COURSE.	
Physics. — Experimental Lectures on Mechanics, with laboratory practice.	3	*Physics.* — Experimental Lectures on Mechanics, with laboratory practice.	3
Logic. — Formal Principles of Inference.	3	*Logic.* — Formal Principles of Inference.	3
Rhetoric. — Lectures on Argumentation, two Essays.	1	*Rhetoric.* — Lect's in Argum'tion, 2 Es'ys.	1
Bible. — Prophecies and the Life of Christ.	2	*Bible.* — Prophecies, and the Life of Christ.	2
Latin. — Plautus, Captivi, Pliny's Letters, selected.	3	*Math.* — Dif. Calculus (Rice and Johnson).	3
Greek. — Thucydides, continued.	3	*French.* — Histoire du XVIII. siècle, selections from the great writers.	3
Mathematics. — Differential Calculus (Rice and Johnson).	3	*German.* — Goethe's Faust, Parts I. and II., Lit. von Klopstock bis Uhland.	3
Botany.	3	*Latin.* — See Classical Course.	3
Zoölogy.	3	*Botany.* — Lectures on Economic Botany, higher and lower Cryptogams, with laboratory work.	3
Geology.	3	*Zoölogy.*	3
French.	3	*Geology.*	3
German.	3	*Qualitative Analysis.*	3
Italian.	3	*Italian.*	3
Elocution.	3	*Elocution.*	3

ELECTIVES.* ELECTIVES.

SECOND TERM.

CLASSICAL COURSE.		SCIENTIFIC COURSE.	
Physics. — Experimental Lectures on Electricity and Sound, with lab. prac.	3	*Physics.* — Experimental Lectures on Electricity and Sound, with lab. prac.	3
History. — Guizot's Hist. of Civil'n, with Lectures and Library work.	3	*History.* — Guizot's History of Civilization, with Lectures and Library work.	3
Rhetoric. — Conduct of Discuss., 3 Debates.	1	*Rhetoric.* — Conduct of Discuss., 3 Debates.	1
Bible. — The Life of Christ, continued.	2	*Bible.* — The Life of Christ, continued.	2
Latin. — Latin Verse, with sel. from Ovid's Metamorphoses, Fasti, and Tristia.	3	*Math.* — Applications of Differential Calculus (Rice and Johnson).	3
Greek. — Euripides: Alcestis.	3	*French.* — Histoire du XVIII. siècle, selections from the great writers.	3
Mathematics. — Applications of Differential Calculus (Rice and Johnson).	3	*German.* — Goethe's Faust, Parts I. and II., Lit. von Klopstock bis Uhland.	3
Botany. — Continued.	3	*Latin.* — See Classical Course.	3
Mineralogy.	3	*Mineralogy.*	3
Zoölogy.	3	*Botany.* — Continued.	3
French.	3	*Zoölogy.*	3
German.	3	*Qualitative Analysis.*	3
Italian.	3	*Astronomy.* — Physical.	3
Elocution.	3	*Italian.*	3
		Elocution.	3

ELECTIVES. ELECTIVES.

THIRD TERM.

CLASSICAL COURSE.		SCIENTIFIC COURSE.	
Physics. — Experimental Lectures on Light and Heat, with lab. prac.	3	*Physics.* — Experimental Lectures on Light and Heat, with lab. prac.	3
History. — 15th and 16th centuries.	3	*History.* — 15th and 16th centuries	3
Rhetoric. — Principal Forms of Prose Discourse, Debate, and Essay.	1	*Rhetoric.* — Prose Discourse, Debate and Essay.	1
Bible. — The Life of Christ, continued.	2	*Bible.* — The Life of Christ, continued.	2
Latin. — Juvenal: selected Satires.	3	*Mathematics.* — Integral Calculus, with applications (Johnson).	3
Greek. — Æschylus: Prometheus.	3	*French.* — Writers of XVIII. Century, Histoire de France, Essays, Criticisms.	3
Mathematics. — Integral Calculus, with applications (Johnson).	3	*German.* — Goethe's Faust, Parts I. and II., Lit. von Klopstock bis Uhland.	3
Botany — Continued.	3	*Latin.* — See Classical Course.	3
Zoölogy.	3	*Botany.* — Continued.	3
Lithology.	3	*Zoölogy.*	3
French.	3	*Lithology.*	3
German.	3	*Qualitative Analysis.*	3
Italian.	3	*Astronomy.* — Physical, continued.	3
Elocution.	3	*Italian.*	3
		Elocution.	3

ELECTIVES. ELECTIVES.

* In the Junior Year any of the electives offered in the Sophomore Year may be taken.

SENIOR YEAR.

FIRST TERM.

CLASSICAL COURSE.		SCIENTIFIC COURSE.	
Mental Science. — Psychology.	3	*Mental Science.* — Psychology.	3
Rhetoric. — Study of Style in Prose and Verse, and two Essays.	1	*Rhetoric.* — Study of Style in Prose and Verse, two Essays.	1
Bible. — Apostolic Church.	2	*Bible.* — Apostolic Church.	2
Lectures on Christian Evidences.	1	*Lectures on Christian Evidences.*	1
*Speculative Philosophy.**	3	*Speculative Philosophy.**	3
Latin. — Lucretius, Martial, and other writers, selections.	3	*Math.* — Determinants (Muir); Analytical Geometry of Three Dimensions (Aldis), begun.	3
Greek. — Euripides: Medea.	3	*Math. Astr.* — Spher. (Chauvenet): Theo. Astronomy (Watson), begun.	3
Math. — Determinants (Muir); Analytical Geometry of three Dimensions (Aldis), begun.	3	*Analytical Mechanics.* — (Wood.)	3
Analytical Mechanics. — (Wood.)	3	*Physics.* — Laboratory Work in Light, with Lect's and Library references.	3
Math. Astronomy. — Spherical (Chauvenet). Theoretical Astronomy (Watson), begun.	3	*French.* — Histoire de France, Criticism of Literature of 19th Century, Hist. of the French Language.	3
Physics. — Laboratory Work in Light, with Lectures and Library references.	3	*German.* — Altdeutsch and Literatur des 19 Jahrhunderts.	3
Qualitative Analysis.	3	*Latin.* — See Classical Course.	3
Botany.	3	*Botany.†* — Lectures on Histology, Phytogenesis, and Elementary Physiology, with Laboratory work.	3
Geology.	3	*Zoölogy.*	3
Zoölogy.	3	*Geology.*	3
History. — Constitutional, of England.	3	*Quantitative Analysis.*	3
History. — Modern, of Europe.	3	*Literature.* — Special Study of Authors: Spenser, Shakspere.	3
Literature. — Special study of Authors: Spenser, Shakspere.	3	*History.* — Constitutional, of England.	3
French.	3	*History.* — Modern, of Europe.	3
German.	3	*Anglo-Saxon.* — Sweet's Gram. and Reader.	3
Anglo-Saxon. — Sweet's Grammar and Reader.	3	*Italian* or *Spanish.*	3
Italian or *Spanish.*	3	*Elocution.*	2
Elocution.	2		

ELECTIVES.‡ — ELECTIVES.

SECOND TERM.

CLASSICAL COURSE.		SCIENTIFIC COURSE.	
Mental Science. — Metaphysics and Ethics.	3	*Mental Science.* — Metaphysics and Ethics.	3
Rhetoric. — Continued. Two Essays.	1	*Rhetoric.* — Continued. Two Essays.	1
Bible. — Epistles.	2	*Bible.* — Epistles.	2
Lectures on Christian Evidences.	1	*Lectures on Christian Evidences.*	1
*Speculative Philosophy.**	3	*Speculative Philosophy.**	3
Latin. — Sel. from Cicero and other auth.	3	*Math.* — Analytical Geometry of Three Dimensions, continued; Modern Anal. Geom. (Whitworth), begun.	3
Greek. — Sophocles: Antigone.	3	*Analytical Mechanics.* — Continued.	3
Math. — Analytical Geometry of Three Dimensions, continued; Modern Anal. Geom. (Whitworth), begun.	3	*Math. Astronomy.* — Theo. Astr., continued	3
Analytical Mechanics — Continued.	3	*Physics.* — Laboratory work in Light and Heat, with Lect. and Lib. refer.	3
Math. Astronomy. — Theo. Astr. continued.	3	*French.* — The Romantic School, Lectures	3
Physics. — Laboratory work in Light and Heat, with Lec. and Lib. refer.	3	*German.* — Altdeutsch and Literatur des 19 Jahrhunderts.	3
Astronomy. — Physical.	3	*Latin.* — See Classical Course.	3
Qualitative Analysis.	3	*Botany.†* — Continued.	3
Botany. — Continued.	3	*Zoology.*	3
Mineralogy.	3	*Astronomy.* — Physical.	3
Zoölogy.	3	*Mineralogy.*	3
French.	3	*Quantitative Analysis.*	3
German.	3	*History.* — Constitutional, of U. S.	3
Anglo-Saxon. — Grammar and Reader.	3	*History.* — Modern, of Europe.	3
Italian or *Spanish.*	3	*Political and Social Science.* — Lectures.	1
History. — Constitutional, of U. S.	3	*Literature.* — Spe. Study of Auth.: Milton, Restor'n Writers, 18th Cent. Auth.	3
History. — Modern, of Europe.	3	*Anglo-Saxon.* — Grammar and Reader.	3
Political and Social Science. — Lectures.	1	*Italian* or *Spanish.*	3
Literature. — Spe. Study of Auth.: Milton, Restor'n writers, 18th Cent. Auth.	3	*Elocution.*	2
Elocution.	2		

ELECTIVES.‡ — ELECTIVES.

SENIOR YEAR—Continued.

THIRD TERM.

CLASSICAL COURSE.		SCIENTIFIC COURSE.	
ELECTIVES.‡	*Moral Philosophy.* 3	ELECTIVES.	*Moral Philosophy.* 3
	Rhetoric. — Continued. One Essay. 1		*Rhetoric.* — Continued. One Essay. 1
	Bible — Revelation, Book of Job. 2		*Bible.* — Revelation, Book of Job. 2
	Lectures on Christian Evidences. 1		*Lecture on Christian Evidences.* 1
	*Speculative Philosophy.** 3		*Speculative Philosophy.** 3
	Latin. — Latin Hymns. 3		*Mathematics.* — Modern Analytical Geometry, continued. 3
	Greek. — Plato: Selections. Greek Lyric Poetry: Selections. 3		*Analytical Mechanics.* — Continued. 3
	Math. — Modern Analytical Geometry, continued. 3		*Mathematical Astronomy.*—Theoretical Astronomy, continued 3
	Analytical Mechanics. — Continued. 3		*Physics.* — Electrical Measurements and Testing. Preparation of Thesis. 3
	Mathematical Astronomy.—Theoretical Astronomy, continued. 3		*French.* — Bartch's Chrestomathie of Old French translated into Modern. 3
	Astronomy. — Physical, continued. 3		*German.*— Altdeutsch and Literatur des 19 Jahrhunderts. 3
	Physics. — Electrical Measurements and Testing. Preparation of Thesis. 3		*Latin.* — See Classical Course. 3
	Qualitative Analysis. 3		*Botany.*† — Continued. 3
	Botany. — Continued. 3		*Zoölogy.* 3
	Lithology. 3		*Astronomy.* — Physical, continued. 3
	Zoölogy. 3		*Lithology.* 3
	French. 3		*Quantitative Analysis.* 3
	German. 3		*History.*— Constitutional, of U. S. 3
	Anglo-Saxon.— Beowulf. 3		*Political Economy.* 1
	Italian or *Spanish.* 3		*Political and Social Science.* — Lectures. 3
	History. — Constitutional, of U. S. 3		*Literature.* — Special Study of Authors: Chaucer. 3
	Political Economy. 3		*Anglo-Saxon.* — Beowulf. 3
	Political and Social Science. — Lectures. 1		*Italian* or *Spanish.* 3
	Literature. — Special Study of Authors: Chaucer. 3		*Elocution.* 2
	Elocution. 2		

* Required Course must be completed earlier by those who elect this Course.
† A year of Botany is required, unless it has been previously elected.
‡ In the Senior Year any of the electives offered in previous years may be taken.

Graduate Instruction.

GRADUATES of Wellesley, and other institutions of equal rank, may continue their studies at the College, whether they make application for a higher degree or not.

The Faculty will recommend for the degrees of Master of Arts and Master of Science, those who hold the corresponding first degree, and, in addition, present the result of two full years of study, taken under the direction of a special committee of the Faculty.

The second degree can, in no case, be taken earlier than two years after the first, nor earlier than three years, unless one year's work, at least, has been done in the College, or under instruction approved by the committee in charge.

The privilege of taking the entire graduate course in non-residence is restricted to graduates of this College.

At least two months before taking the degree, the candidate must either pass a satisfactory examination upon the completed work, or present a thesis which she is prepared to defend.

Degrees.

STUDENTS who complete the Classical Course will, on the recommendation of the Faculty, receive the degree of Bachelor of Arts.

Students who complete the Scientific Course will, on the recommendation of the Faculty, receive the degree of Bachelor of Science.

The degree of Bachelor of Music will be granted upon the conditions stated under the head of School of Music.

The degrees of Master of Arts, and Master of Science, will be granted upon the conditions stated under the head of Graduate instruction.

Courses of Instruction Offered for 1885-1886.

A DESCRIPTION of the general plan and scope of instruction is given to aid students in their selection of a course of study, and in their choice of electives during the course.

I. THE CLASSICS.

1. GREEK.

First Year. — Odyssey (selections); Herodotus (selections); Plato: Apology and Crito; English into Greek from dictation.

Second Year. — Greek Prose Composition; Demosthenes (select orations); Thucydides (selections).

Third Year. — Thucydides, continued; Euripides: Alcestis; Æschylus: Prometheus; English into Greek from dictation.

Fourth Year. — Euripides: Medea; Sophocles: Antigone; Plato (selections); Greek Lyric Poetry (selections).

2. LATIN.

First Year. — Livy: one book; Prose Composition; Tacitus: Germania and Agricola; Cicero: Letters (selections).

Second Year. — Horace: Odes, Epodes, Satires, and Epistles (selected); Prose Composition; Pliny's Letters (selected).

Third Year. — Plautus: Captivi; Verse Composition; Ovid: Metamorphoses, Fasti, and Tristia (selections); Juvenal: Satires (selected).

Fourth Year. — Martial: Epigrams (selected); Selections from Lucretius, Cicero, and other writers; Latin Hymns.

Classical students are instructed in the Literature, History, Mythology, Archæology, and Art of Greece and Rome. They have unrestricted use of numerous works of reference and illustration, together with the latest and best German, French, and English editions of the classics. There is, also, a large collection of copies in plaster and sulphur from antique coins, medals, and gems, for the illustration of Classical Studies and Ancient History.

II. MATHEMATICS.

First Year. — Solid and Spherical Geometry (Chauvenet); Advanced Algebra; Plane Trigonometry (Chauvenet).

Second Year. — Spherical Trigonometry (Chauvenet); Analytical Geometry (Puckle).

Third Year. — Differential Calculus (Rice and Johnson); Applications of Differential Calculus (Rice and Johnson); Integral Calculus, with applications (Johnson).

Fourth Year. — Determinants (Muir); Analytical Geometry of Three Dimensions (Aldis); Modern Analytical Geometry (Whitworth).

ANALYTICAL MECHANICS.

Analytical Mechanics (Wood).

MATHEMATICAL ASTRONOMY.

Spherical Astronomy (selections from Chauvenet). Spherical coordinates, Precession, Nutation.

Theoretical Astronomy (Watson), Chaps. I. and III., concluding with the calculation of a parabolic orbit.

III. MODERN LANGUAGES AND LITERATURES.

1. GERMAN.

First Year. — Deutsche Grammatik für Amerikaner by Wenckebach — Schrakamp. Das deutsche Buch by Van Daell — Schrakamp. Object teaching in German language.

Second Year. — Grammar and object teaching. Immensee by Storm; der Neffe als Onkel; Minna von Barnhelm.

Freshman Year. — Schiller's Leben und Werke nach Düntzer und Viehoff. Schiller's life and works are made the subject of lectures, compositions, and conversation in German. Deutsche Liebe by Max Müller; Signa die Seterin by Mügge.

Sophomore Year. — Goethe's Leben und Werke nach Düntzer und Viehoff. Iphigenie auf Tauris, Nathan der Weise, Wallenstein. Geschichte der deutschen National Literatur vom Anfang bis Klopstock. König's Literaturgeschichte. Essays on literary subjects.

Junior Year. — Goethe's Faust, Parts I. and II. (Ausgabe von Schröer.) Literaturgeschichte nach König und Roquette von Klopstock bis Uhland. Essays.

Senior Year. — Die Literaturgeschichte des 19ten Jahrhunderts nach Salomon und Gottschall. Medea von Grillparzer. Harald von Wildenbruch. Essays. Mittelhochdeutsch: das Nibelungenlied. Althochdeutsch: der Krist. Gotisch: Ulfilas.

2. FRENCH.

First Year. — Sauveur's Grammar and Causeries avec mes Elèves, or Bocher's Grammar. Six of La Fontaine's Fables committed to memory. Reading and translation of two Modern select plays. Lamartine's Graziella.

Second Year.— Sauveur's Grammar and Causeries, continued. Hennequin's Idiomatic French. Roulier's Translations into French. Mme. Alliot's Auteurs Contemporains. Two Classic Plays by Molière or Racine. Picciola, by Saintine.

Freshman Year. — Littérature Classique to the 17th Century. Molière. Racine. Corneille. Selections into French from A. Mariette's Half-Hours of French Translation. Essays and Criticisms.

Sophomore Year. — Paul Albert's Littérature of the 17th Century. Pascal. Molière. Racine. Corneille. Descartes. Mme. de Sévigné. Port Royal. Essays and Criticisms. English into French.

Junior Year.— Paul Albert's Littérature of the 18th Century. Histoire de France, by Duruy. Essays and Criticisms, Selections from the great writers. English into French.

Senior Year. — Paul Albert's Littérature of the 19th Century. History of the French Language. Bartch's Chrestomathie of Old French translated into Modern. Histoire de France. Lectures.

Exercises in prose composition are given throughout the course. German and French text-books are used, recitations are conducted entirely in the language which is studied, and students are taught to converse at the German and French tables in the dining-halls.

All students may consult at any time the French and German Libraries of classical and modern authors, and the important collections of Old French and German Literature. Large numbers of reviews and magazines are received for the use of these Departments. Among these are Literarisches Centralblatt, Deutsche Rundschau, Archiv für Literaturgeschichte, Westermann's Monats-Hefte, Neue Jahrbücher für Philologie und Peddagogik; and Revue des Deux Mondes, Magazin Pittoresque, Revue Politique et Littéraire, Gazette des Beaux Arts, Revue des Langues Romances, Romania.

3. ITALIAN.

First Year.— Perini's Grammar. Oral Exercises. Reader: Dall'Ongaro Novelle.

Second Year. — Grammar and Reader completed. Prose composition. Narration. Dictation. Manzoni's I Promessi Sposi.

4. SPANISH.

Grammar and Reader. Oral Exercises.

IV. ENGLISH LANGUAGE AND LITERATURE.

1. RHETORIC AND ENGLISH COMPOSITION.

First Year.— J. D. Hill's Science of Rhetoric: Organic Structure of the Essay; Laws of Narration, Description, and Exposition; with brief papers illustrating the principles studied. In addition to these exercises, six essays are required during the year.

Second Year.— Study of Argumentation, with lectures on Oral and Written Discourse. Four debates and three essays are required.

Third Year.— Spencer's Philosophy of Style. Critical Analysis of selections in prose and poetry. Four essays are required on literary, historical, and philosophical themes.

An elective course in Rhetoric and Composition is also arranged for those students who do not enter the regular classes.

2. ENGLISH LITERATURE.

First Year.— Nineteenth Century Literature. Lectures on English and American Authors.

Second Year. — Outlines of General Literature, beginning with the corruption of the Latin Tongue. Mediæval Epics. Early Literature of Italy, Spain, France, and Germany. Outline History of English Literature.

Third Year. — Critical Study of English Classic Authors: Spenser, Shakspere, Milton, Writers of the Restoration, Writers of the Eighteenth Century, Chaucer.

Special Courses for the study of the History of American Literature, and of English Translations of Homer and Dante, are arranged, and will be given if a sufficient number of students wish to form a class.

No class text-books are used. Instruction is given by lectures and topics, whose elaboration is made dependent upon constant and thorough use of the College Library.

A large Shakspere Library has been formed, to encourage the study of this author. The publications of the New Shakspere Society, and the "Deutschen Shakspere Gesellschaft," are regularly received.

3. ANGLO-SAXON.

Sweet's Reader and Grammar. Beowulf, entire. Selections from other early English poems.

For the study of early English Literature, the Library offers Rolbing, Englische Studien, Archiv für das Studium der Neureren Sprachen und Literaturen; the publications of the early English Text Society, the Chaucer Publication Society, the Camden Society, with many others. For the study of Anglo-Saxon, the Library offers the publications of the Aelfric Society and of the Surtees Society, and various editions of Anglo-Saxon documents. The publications of the Royal Society of Northern Antiquaries, Copenhagen, and of the English and American Philological Societies, are received, and there are several editions of the Sagas and Eddas in the original.

V. HISTORY.

First Year. — Lectures on the Roman Empire; the Rise of the New Nations; Early Mediæval Institutions.

Second Year. — *First half:* Political History of England to the French Revolution.

Second half: History of France.

Third Year. — The History of European Civilization. Guizot, with illustrative lectures and library studies.

Fourth Year. — *First half:* The Constitutional History of England.

Second half: Constitutional History of the United States.

Fifth Year. — *First half:* Modern History.

Second half: Political Economy.

VI. POLITICAL SCIENCE.

1. Lectures on Primitive Societies; Growth of States; Forms of Government; Development of Constitutional Government; Relation of Government to Society.

2. Growth of Law; Rise and Progress of International Law.
3. Political and Social Institutions. Discussion of important questions in Social Science.

VII. MENTAL AND MORAL PHILOSOPHY.

First Year. — Bible Study; Exposition of Principles of Christian Ethics.

Second Year — Logic; Formal Principles of Inference; Exercises in Argumentation and Criticism. *One term.*

Third Year.—1. Psychology; Discussion of Scientific Terms; Lectures and Recitations on the leading systems of the Scottish Philosophers.

2. General History of European Philosophy; Discussions and Lectures.

3. Ethics and Moral Philosophy; Lectures and Recitations.

Fourth Year.— 1. Principles of Criticism; General Outline of Theories of Speculative Philosophy.

2. History of Modern Philosophy.

3. Studies in Theism.

VIII. CHEMISTRY.

First Year. — Lectures on General Chemistry, with laboratory work and chemical problems.

Second Year.—*First and Second terms:* Qualitative Analysis.

Third term: Organic Chemistry.

Third Year. — Quantitative Analysis, both Volumetric and Gravimetric.

All the students have access to the Library of Chemistry and Mineralogy. The chemical periodicals are regularly received for the use of the students.

IX. MINERALOGY, LITHOLOGY, AND GEOLOGY.

First Year.—First term : Blowpipe Analysis and examination of hand-specimens.

Second term : Crystallography and Lithology.

Third term : Geology.

In the Blowpipe Analysis Brush's text-book is followed. In Descriptive Mineralogy no one text-book is used, but similar sets of minerals are placed before the class, one set for each pupil, and a list of the physical properties is made. Subsequent recognition at sight of the minerals is required. The class is taught to draw crystal forms. In Lithology the compound microscope and polariscope are used. There is a good collection of rock-sections.

The course in Geology is designed to give the students a general knowledge of the history of the earth, and of the methods of geological study and reasoning. An outline of the physical changes which are in progress is given as a fitting introduction to the interpretation of the records of the past. The instruction consists of lectures, supplemented by reading and recitations. The specimens in the collections are used as freely as the circumstances will permit.

X. PHYSICS.

First Year. — Experimental lectures on the Mechanics of Visible Masses, with laboratory work in Physical Measurements, experimental lectures on Electricity, Sound, Light, and Heat, with laboratory work.

Second Year. — Laboratory work in Spectrum Analysis, Polarized Light, Chromatics, with lectures and library references ; Photography, theory and elementary practice ; experimental work in Heat, with lectures and library references ; electrical measurements and testing ; preparation of thesis.

The instruction in Physics is given by lectures and recitations, supplemented by quantitative experiments in the laboratory. The foundation doctrines of Energy and Motion are first discussed. Sound, Light, Heat, Electricity, and Magnetism are treated as forms of

Energy. As far as possible, experiment precedes theory, and the student is led to make the inductions. Drawing of apparatus and a distinct record of the object and results of the experiment are required. The graphical method of showing the relation between variable quantities is much used.

LABORATORY PRACTICE.

First Year. — Experiments in General Physical Measurements,—Estimation of tenths in space; estimation of tenths of a second; use of Verniers; use of various forms of Thermometers; methods of testing Thermometers; use of Reading-Microscopes; use of Cathetometer; use of Hook Gauge in determining the height of the surface of liquids; use of Hydrometers; use of Barometer in determining heights; calibration by water and mercury; calculation of probable error of results.

In Mechanics. — Determination of the co-efficient of friction; of the laws of deflection of beams; of the laws of the pendulum; of the laws of the torsion of wires; of specific gravity by various methods; of the laws of falling bodies, and the relations of force and momentum by Atwood's machine.

In Light. — Determination of the law of the conjugate foci of lenses; of the radius of curvature and focal distance of lenses by the Spherometer; of the candle-power of lights; use of the Spectroscope, mapping out the prominent Fraunhofer lines, and the spectra of the lighter metals, which can be volatilized by the Bunsen Burner; general manipulation of the Microscope; study of the phenomena caused by parallel beams of polarized light.

In Sound. — The verification of the laws of strings with Sonometer; study of overtones, with set of diapasons and organ-pipes from König; study of vibrations, with Chladni's Plates, Lissajou's Apparatus, Tisley's Pendulums, Blackburn's Pendulum, and the Phoneidoscope; determination of pitch with the Siren.

First Year. — *In Electricity.* — Measurement of electrical resistances; determination of the law of Sine-Galvanometer; law and force of Magnets. A telegraphic line has been set up, and experiments are performed with the ordinary transmitter and receiver, and with the Telephone and Microphone.

(*Continued.*)

Second Year. — *In Heat.* — Laws of the expansion of solids, liquids, and gases; thermometry; determination of specific heats; study of the laws of radiant heat and diathermancy, with the use of a complete Melloni's apparatus.

In Light. — Study of the laws of reflection, refraction, and dispersion with the Circle of Duboscq; measurement of the angle of prisms with the Spectrometer, and of crystals with Wallaston's Goniometer; measurements of indices of refraction; more extended work with the Spectroscope, mapping out the spectra of gases, with the use of the electric spark and a seven-inch Induction Coil from Ritchie; comparative spectra; constructing spectroscope curve, the instrument used being a spectroscope from Browning, of London, giving a dispersion of twelve prisms; study of absorption spectra, with the Microspectroscope; study of the phenomena of Polarized Light with a Polari-Microscope and set of crystals from Hofmann, of Paris; photometry.

In Photography. — The action of light upon sensitized plates is studied with suitable experiments, and the student is required to present satisfactory negatives and paper prints.

In Electricity. — Electrical measurements; determination of galvanometer constants; the study of the phenomena of diamagnetism.

Students are taught the various departments of lantern projection. The experiments will be extended and varied according to the judgment of the instructor. It is the intention to shape the course to train the student to accuracy of observation, skill in experimenting, and clearness in statement of scientific facts.

Text-books for Laboratary practice, Pickering's Physical Manipulations, Vol. II., Kohlrausche's Physical Measurements. Students constantly use the reference library of over 1,000 books.

The following scientific periodicals are received for the use of this department: Comtes Rendus de l'Academie des Sciences, London Philosophical Magazine, Journal of the Franklin Institute, Dingler's Polytechnische Journal, The American Journal of Science, Popular Science Review, Annalen der Physik und Chemie, Nature, Science.

XI. ASTRONOMY.

Physical Astronomy is an elective study of the Senior year. The instruction is given by lectures, illustrated by globes, charts, and lantern-slides. The lectures are supplemented by the constant use of the works in the Astronomical library, and by observations with the telescope. Every student is required to observe the moon at several phases, and to identify certain prominent craters and seas; also to observe the sun and planets, and certain nebulæ and clusters.

Especial attention is given to Spectroscopic Astronomy and the Constitution of the Sun. For Course in Mathematical Astronomy, see "Mathematics."

XII. BOTANY.

First Year. — Lectures on Descriptive Anatomy.
General Morphology, with laboratory work and the making of Herbarium.

Second Year. — Lectures on Economic Botany. Laboratory work in the more difficult orders of Phænogams, — grasses, sedges, etc. Higher Cryptogams, followed by lectures on lower Cryptogams, with laboratory work.

Third Year. — Lectures on Histology, Phytogenesis, and Vegetable Physiology, with laboratory work.

The study of the gross and minute anatomy of the various organs of plants is followed by a consideration of the changes of form which they undergo in different species, according to their conditions of life. Plants thus studied are carefully described, compared, and grouped in accordance with their genetic relations.

Special attention is given to the orders which have been supposed to present peculiar difficulties, and which, for this reason, are often neglected. In the study of orders, mention is made of the prominent species of each, especially those furnishing useful products. In connection with the study of vegetable tissues, instruction is given in Practical Microscopy, in the use of Micro-chemical re-agents, and in preparation of microscopical specimens.

Succeeding this branch of the science is the study of the plant in action, and the consideration of questions pertaining to its life-history. A portion of the second year is also given to the determination of dried specimens of plants, and to the study of the flora of some assigned locality.

Every object studied in the laboratory is sketched. To give facility in this indispensable part of the work, opportunities are given to the students to receive every week, throughout the course, free instruction in drawing, and painting in water-colors.

The following botanical periodicals are regularly received for the use of this department: Curtis' Botanical Magazine; Botanische Zeitung, Bulletin de la Sociétie Botanique de France; Annales des Sciences Naturelles; Journal of Botany; Journal of the Linnæan Society; Grevillea; Hedwigia, and Botanical Gazette; Torrey Botanical Club.

XIII. ZOÖLOGY.

First Year. — First term: Dissection of typical Invertebrates. *Second term:* — Dissection of typical Vertebrates; Comparative Osteology. *Third term:* Embryology of the chick. Laboratory work supplemented throughout by Lectures.

Second Year.— *First term:* Collecting; determination of species. *Second term:* Histology. *Third term:* Detailed study of a single group.

The work of the first year is mainly preparatory. Familiarity with laboratory methods is sought rather than wide knowledge. A type of each important group of animals is dissected, and notes and drawings of its anatomy are made by the student. Knowledge thus gained is supplemented by a lecture discussing the interpretation of these facts, together with those noticeable variations from the type which the group displays.

The early part of the year is devoted to anatomy, while the spring is spent in studying the development of the structures previously examined. The embryology of the chick is worked through in the laboratory, while the lectures include also the outlines of general vertebrate embryology.

In the second year the student begins by collecting and classifying the commoner forms of vertebrates and invertebrates. An incidental knowledge of zoölogical literature is thus obtained.

Next succeeds a brief course in Histology; and finally a careful study of a single group, with special reference to Phylogeny. In the lectures of this year Embryology, Phylogeny, and Distribution will receive special attention.

Preparation. A knowledge of Drawing and German is indispensable if the student would gain the full benefit of this course. Those unable to draw must avail themselves of the free weekly instruction which is provided.

Apparatus. Each student is provided with a simple and a compound microscope, with re-agents, etc. Dissecting instruments may be provided by the student, or be rented, for a small fee, from the College.

Museum. This is solely a working one; but no pains will be spared to make it effective. It contains a considerable number of glass models, as well as others executed in wax and *papier maché*.

Literature. There is a zoölogica library, and all the important zoological periodicals are regularly received.

PHYSIOLOGY.

A course of elementary lectures upon those points of human anatomy and physiology which bear upon hygiene, is given before the Freshman class in the early part of the Fall term.

In the second and third terms an elective course in practical hygiene and sanitary science is offered.

XIV. ELOCUTION.

Elocution is open to all the students as an elective study. Private instruction is given at the same expense as in Vocal Music.

Special students desiring to fit themselves for teachers in oratory, will find facilities here for thorough instruction.

Wellesley School of Music.

THE School of Music is located in Music Hall, which contains thirty-eight music-rooms and a hall for lectures and choral singing. Forty pianos and two large organs are furnished for the use of students. The organ presented by Mr. W. O. Grover has three manuals, each of sixty-one notes, a pedal of thirty notes, and twenty-six speaking registers. It contains 1,584 pipes.

REQUIREMENTS FOR ADMISSION.

Candidates must meet the general requirements for admission; and, unless accepted on certificate, must pass satisfactory examinations in

MATHEMATICS, as required for the Freshman class.
LATIN, as required by the Freshman class.

HISTORY, GREEK and ROMAN (Smith and Merivale's). Outline of ENGLISH and UNITED STATES HISTORY.

ENGLISH LITERATURE. (Shaw's Manual, or an equivalent.)

ENGLISH COMPOSITION, as for the Freshman class.

GEOGRAPHY, as for the Freshman class.

Special students for any musical study will be received.

COURSES OF STUDY.

Three full courses are offered, each extending through five years; students at all times taking three studies — two lessons per week in each.

I. PIANO: HARMONY AND COMPOSITION, and GERMAN.
II. ORGAN: HARMONY AND COMPOSITION, and GERMAN.
III. VOICE: HARMONY AND COMPOSITION; two years ITALIAN; three years GERMAN or FRENCH.

Violin, Viola, Violoncello, Harp, or any orchestral instrument, may be made a specialty instead of the above-mentioned principal studies.

Theory and Æsthetics, and

Lectures on History of Music — last year of each course, weekly.

Students who complete either of these courses will receive the diploma of the School of Music; and if specially talented and deserving, the degree of Mus.B.

THE FIVE YEARS' LITERARY AND MUSICAL COURSE.

Students entering the Classical or Scientific Course may combine the regular study of Music with the work required for a degree, the collegiate studies extending through five years instead of four. Students in this course will preserve their rank as members of the College class which they enter.

Any one of the three courses of instruction may be selected — the Piano-forte, the Organ, or the Voice. Lessons on the Harp, Violin, Viola, and Violoncello are subject to special arrangements. Students who enter the Freshman Class of the Classical Course *unconditioned*, may join the Five Years' Course, and receive *free instruction* in Vocal Music, or on the Piano or Organ.

Instruction will be given in classes of three — two lessons a week, or the equivalent in a private lesson.

Students in the Scientific Course may combine with it a five years' course in Music; but the instruction is *not free*, the extra expenses of the laboratories being considered equivalent to the expenses of the Musical Course.

All students in Music pay for the use of organs or pianos.

COURSE OF STUDY FOR THE PIANO-FORTE.

FIRST YEAR.

Selections from the following works, according to the judgment of the teacher and needs of the students: —

WORKS FOR TECHNIQUE.

Czerny: Op. 849, six books; Op. 299, three books. Bertini: Op. 29. Loeschhorn: Op. 66, three books. Köhler: Op. 60. Krause: Op. 2, Trill Studies; Op. 5, two books; Op. 9, Etudes in Broken Chords. Heller: Op. 47, two books; Op. 46, two books. Plaidy's Technical Studies. Emery's "Head and Hands." Clementi's Preludes and Exercises. Bach's Two-part Inventions.

PIECES.

Sonatinas and easier Sonatas of Haydn, Mozart, Clementi, Reinecke, Merkel, and Krause. Sonatas of Beethoven: Op. 2, No I.; Op. 10, Nos. I. and II.; Op. 14, Nos. I. and II. Mendelssohn's Songs without Words; Caprices, Op. 16; Kinderstuecke, Op. 72; and other short pieces. Selections of moderate difficulty from the best of the modern composers. Works for four hands.

SECOND YEAR.

ETUDES.

Czerny: Op. 740, three books; Op. 409. Jensen: Op. 32. Mayer: Op. 305. Cramer's Fifty Studies, first half. Clementi's Gradus, first half. Kullak's Octave School. Krause: Op. 15, Left-hand Studies. Heller: Op. 45, two books; Op. 16, Art of Phrasing. Eschmann: Op. 22. Technics by Plaidy, Emery, and Tausig.

PIECES.

The more difficult Sonatas of Haydn, Mozart, Clementi, and Dussek. Beethoven: Op. 2, Nos. II. and III.; Op. 7; Op. 10, No. III.; Op. 13; Op. 26. Lesser works of the Bachs, Scarlatti, and other ancient writers. Selections from the works of Mendelssohn, Chopin, Schumann, and other writers of the modern romantic school. Bach's Preludes.

THIRD YEAR.

ETUDES.

Czerny: Op. 740, continued. Cramer (Bülow), continued. Clementi (Tausig), continued. Moscheles: Op. 70, two books. Bennett: Op. 11. Mayer: Op. 119. Kullak's Octave School. Bach's Preludes and Fugues.

PIECES.

Sonatas of Dussek and Hummel. Suites of Bach, Handel, and Scarlatti. Beethoven Sonatas: Op. 22; Op. 27, Nos. I. and II.; Op. 28; Op. 31, Nos. I., II., and III. Concertos of Hummel and Mozart. Preludes and Fugues, Rondos and Caprices of Mendelssohn. Impromptus of Schubert. Preludes, Impromptus, and shorter pieces of Chopin. Noveletten and Fantasiestuecke of Schumann.

FOURTH YEAR.

ETUDES.

Czerny's Virtuoso Etuden. Chopin: Op. 25 Henselt: Op. 2 Baermann: Op. 4 Grund: Op. 21. Seeling: Op. 10. Toccatas of Czerny, Schumann, Rheinberger, and others. Bach's Preludes and Fugues.

PIECES.

Beethoven: Sonatas, Ops. 54, 57, and 81; Variations; Concertos, Nos. 1 and 3. Schubert's Sonatas. Mendelssohn's Concertos and Variations. Chopin's Variations, Ballades, Scherzi, Nocturnes, and Polonaises. Concert pieces of Rheinberger, Saint-Saëns, Raff, Scharwenka, Moszkowski, and others.

FIFTH YEAR.

ETUDES.

Chopin: Op. 10. Henselt: Op. 5. Schumann: Op. 13. Thalberg. Liszt Rubinstein

PIECES.

Last Sonatas of Beethoven. Fourth and Fifth Concertos of Beethoven. Fantasies and concerted pieces of Schumann, Chopin, Liszt, Rubinstein, and others.

COURSE OF STUDY FOR THE ORGAN.

FIRST YEAR.

Manual-playing in two, three, and four parts (without pedals), for perfection of touch and execution, as exemplified in the works of Rink, André, Hesse, and Lemmens.

Rink's Organ-School, Books I., II., and III.

Studies in Registration.

Offertoires by Wély and Batiste.

Easy Choral Preludes of Bach, Richter, Merkel, Papperitz, and others. Short Fugues of Bach.

SECOND YEAR.

Rink's Organ-School, continued.

Buck's Studies in Pedal Phrasing.

Arrangements from the Sonatas and Symphonies of Haydn, Mozart, and Beethoven.

Choruses arranged from Handel's Oratorios.

Selections from Bach's Organ Fugues.

Mendelssohn's Sonatas. Preludes, Fantasies, and other pieces from Wély, Guilmant, Merkel, Batiste, and Hesse. Best's Arrangements.

THIRD YEAR.

Handel's Concertos.

Mendelssohn's Sonatas.

Ritter's Sonatas.

Merkel's Sonatas.

Toccatas, Preludes, and Fugues of Bach.

Concert Pieces by the best English, French, and German masters.

Best's Arrangements, continued.

FOURTH YEAR.

The more difficult works of Bach, Handel, Ritter, Guilmant, Widor, and Saint-Saëns.
Best's Arrangements, continued.

FIFTH YEAR.

Bach's Trio Sonatas, Fugues, and Passacaglia.
Rheinberger's Sonatas.
Thiele's Concert Pieces.
Best's Arrangements.
Concert Pieces of the best masters, ancient and modern.

COURSE OF STUDY IN SOLO SINGING.

FIRST YEAR.

The voice as an instrument. Formation of Tone. Study of the Scales: major, minor, and chromatic. Slow trills and simple musical figures, with the vowels *ä*, *i*, and *o* pure and modified. Rules for Breathing, and their practical application. Concone's Studies. Exercises Elémentaires Gradués, by Mme. Marchesi. Vocalises, by Vaccai, Sieber, and Marchesi. Exercises for the flexibility of the vocal chords. Selected songs in English, French, German, and Italian.

SECOND YEAR.

Continuation of the above. Lamperti's Bravura Studies, Books I. and II. Advanced studies for Agility. Songs by the best American and European composers. Simple Scenas and Arias from the Italian, French, and German Operas. Airs from the Oratorios.

THIRD YEAR.

Lamperti's Bravura Studies, Books I., II., and III. Etudes by Bordogni. Vocalises by Panofka, Marchesi, and Rossini. Songs of Schumann, Franz, Mendelssohn, Rubinstein, and best English and French writers. Oratorio. Scenas and Arias from standard operas Operatic Arias by Handel, arranged by Robert Franz.

FOURTH YEAR.

Résumé of previous work. Study of music by the old German, Italian, and English masters. Selections from the more difficult cavatinas and concerted pieces from the operas. Oratorio singing continued.

FIFTH YEAR.

Bravura singing as exemplified in the best works of present and past composers. The great Arias and concerted pieces from the Classic Operas and Oratorios. Selected Songs.

Elocution is studied during each year of the course in solo-singing.

HARMONY AND MUSICAL THEORY.

The importance of this branch to all musical students cannot be overstated. While a moderate familiarity with its principles and practice greatly facilitates the progress, a sound knowledge of Harmony is essential to the success of all vocalists and instrumentalists. It is urgently recommended that all those who can, will, sooner or later, include Harmony with their other Musical work. In case of special students in Music, and those who desire to graduate, the study of Harmony will be required.

TEXT-BOOKS USED IN HARMONY.

Emery's Elements of Harmony.
Richter's Manual (translated by J. C. D. Parker).
Richter's Counterpoint (translated by Franklin Taylor).
Richter's Fugue (translated by Arthur Foote).
Wohlfahrt's Guide to Musical Composition.

STUDY OF THE VIOLIN.

It is hoped that many students will embrace the opportunity offered by the College to study this instrument under one of the ablest instructors of Boston.

ENSEMBLE PLAYING.

Every facility is offered for the study and practice of what is known as chamber music. The Fantasies, Romances, Sonatas, and Trios of the great Masters, for the Piano and Violin, with addition of Violoncello, and occasionally other instruments.

SIGHT-SINGING, ANALYSIS AND INTERPRETATION.

For the benefit of vocal students and others who are deficient in this respect, classes in Sight-singing have been formed, and are free to members of the Beethoven Society. All others will be charged a small fee.

Classes in Analysis and Interpretation of classical works will be formed by the Director, in case it is desired by at least six students.

CONCERTS AND LECTURES.

At frequent intervals, recitals and concerts will be given by the advanced students in the several departments, by members of the Faculty of the School of Music, and by distinguished musicians from Boston and elsewhere.

All concerts and lectures are free, but it is hoped that all who are able will contribute to the "Concert Fund."

Lectures on Theory and Æsthetics, and on the History of Music and Musicians, are given throughout all the courses by the Director and non-resident lecturers.

School of Art.

THE purpose of the School of Art is to develop individual ability and the expression of individual ideas. The course of study extends through five years, and diplomas are awarded upon its completion. The requirements for admission are the same as for the School of Music. Students may enter an advanced class at any time by presenting satisfactory specimens of the work required in the previous years of the course.

COURSE OF STUDY.

FIRST YEAR.— FORM.

Modeling; Drawing from objects and casts; Design; Geometrical Drawing. Lectures on the Science of Perspective.

SECOND YEAR.—LIGHT AND SHADE.

Modeling; Drawing and Shading from objects, models, and casts; Perspective. Artistic Anatomy.

Illustrated lectures on the History of Egyptian and Greek Art.

THIRD YEAR.— COLOR.

Modeling; Drawing from casts — heads; Historic Ornament; Painting from still life. Illustrated lectures on the History of Italian Art.

FOURTH YEAR.—COLOR.

Modeling; Drawing from casts — heads and figures; Painting from still life and life model.

Illustrated lectures on the History and Characteristics of Art in Germany, France, and England.

FIFTH YEAR.

Modeling; Drawing and Painting from life models.
Composition and Style.

THE FIVE YEARS' LITERARY AND ART COURSE.

A regular course of five years' instruction in Art will be given upon the same plan which has proved so satisfactory in the study of Music.

Students who enter any one of the regular college courses may combine with it the course in Art, their regular collegiate studies being distributed through five years instead of four. Free instruction in the Art Course will be given to those who enter the Freshman Class of the Classical Course *unconditioned*. Students in the Scientific Course can take the Art Course; but the instruction is not free, as the expenses of the laboratories are fully equivalent to the expenses of the Art Course.

SPECIAL INSTRUCTION.

Free instruction in Modeling, Freehand, Mathematical, and Perspective Drawing is given to the students in the regular College Courses, for one year, two hours per week. All the classes in Botany receive free instruction in flower-painting.

Private lessons in the various branches of Art will be given to those who desire them. For terms, see page 65.

Art Collections.

The School of Art is furnished with a collection of over two thousand engravings, photographs, etchings, and drawings; a series of stereoscopic views illustrating the history and art of different nations and periods; a collection of paintings in oil and water colors, some of which are copies of the old Masters, and others by Gifford, Quartley, Vedder, Zwengauer, Cole, Hübner, Webb, Chapman, Friar, Bellows, Lambinet, Ellen Robbins, and other artists illustrate the modern schools of art; the Hammatt-Billings collection of drawings, illustrating the Apocalypse; copies of ancient armor; a ceramic collection; coins and pieces in bronze and iron; one hundred statues and busts, and a large collection of casts from the antique.

A complete descriptive catalogue of the works of art has been published for the use of students.

The Libraries and Reading-Room.

The Libraries of the College contain 26,500 carefully selected volumes, not including pamphlets, and are open for the use of the students during the day and evening. Besides the General, there are the following Special Libraries:—

The Scientific Library numbers 3,739 volumes, and is divided into

Botanical Library, 850 vols.

Library of Physics and Physical Astronomy, 1,418 vols.

Library of Zoölogy and Physiology, 820 vols.

Library of Chemistry, Mineralogy and Geology, 651 vols.

These libraries are placed, for convenience, in the laboratories of the departments to which they belong.

The Gertrude and Sunday Libraries, with other collections in the General Library, furnish 2,900 volumes for Biblical study and religious reading.

The Art Library numbers over 700 valuable books, many of them rare collections illustrating the finest works of the old Masters.

The Musical Library contains the biographies of the great artists and composers, histories of music, books of essay and criticism, the great oratorios and operas, and an increasing collection of vocal and instrumental music by the best composers.

The Stone Hall Library, of valuable literary, historical, and religious works, is being accumulated through private generosity.

Ninety-five American, English, French, and German periodicals are taken for the General Library. Fifty-five daily, weekly, and monthly journals are taken for the Reading-Room.

Besides the regular book and card catalogues as used in the best libraries, a complete and minute classification on the shelves, by subjects, is well advanced by trained cataloguers, under the supervision of the Consulting Librarian. With this is being made a complete subject-catalogue in a separate book for each main class, an exhaustive catalogue and analysis on cards, and the fullest printed index of topics that has yet been arranged for library use. To all books, catalogues, and indexes, all students have unrestricted access, day and evening; and it is purposed to make the training in the best methods of reading and consulting libraries an important factor in the College Course. Besides the personal efforts of Librarian and Faculty to this end, readers' manuals, guides, and all the aids that the recent study of leading librarians has proved most valuable, will be provided.

A special course of lectures on Bibliography will be given during the fall and winter terms.

Wellesley College — From Lake Waban.

Laboratories and Scientific Collections.

I. CHEMICAL AND MINERALOGICAL LABORATORIES.

In the department of Chemistry there are two Laboratories, which are fully supplied with apparatus and chemicals. These Laboratories are arranged for the accommodation of one hundred and fifty students doing

experiments in general chemistry. They are furnished with pneumatic sinks, gas, and hoods for the manipulation of noxious gases.

Laboratory accommodation is provided for students of Qualitative and Quantitative Analysis.

In the Mineralogical Laboratory there is room for thirty students to experiment at the same time. Each place is furnished with a set of blow-pipe tools, and all the apparatus and re-agents necessary for the determination of minerals by chemical tests.

The Mineralogical Cabinet comprises between five and six thousand minerals, which are well adapted for the purposes of instruction. Among these are a number of natural crystals, which aid the study of crystallography.

In the Lithological collection, the principal varieties of rocks are well represented by hand-specimens and by microscopical sections.

A collection for the purpose of illustrating the subjects of Structural and Historical Geology has been begun.

2. PHYSICAL LABORATORIES.

The department of Physics has a convenient lecture-room, with lantern and *portelumiére* for the illustration of lectures. Water, wires from the battery, oxygen, hydrogen, and illuminating gas are at the lecturer's desk. Apparatus necessary for instruction and illustration has been selected with great care from the best makers in England, Germany, France, and America. There is a Professor's Laboratory, for the preparation of experiments, and Students' Laboratory, supplied with instruments for quantitative work. This is arranged in eight separate rooms and alcoves. A dark room is supplied with Bunsen's Photometer, for measuring the candle-power of lights, and with apparatus for other experiments in Light. A room is fitted up for an Electrical Laboratory, and is supplied with Wheatstone's Bridge and Resistance Coils, Thomson's Mirror Galvanometer and Lamp-stand, made by Elliot, of London; the instruments of a telegraphic station; and other apparatus necessary for electrical measurements. There is also a Battery-room and a room for Photography.

3. BOTANICAL LABORATORIES.

The Laboratory for the study of Morphology accommodates one hundred students for lectures, or fifty for laboratory-work. Each student has her own table, dissecting microscope, and other appointments. Adjoining are the College Herbarium and Botanical Museum, and a third room for the pressing and preparation of plants. On the same floor is the Botanical Library — all being accessible to students. On the floor above is a lecture-room for classes in advanced work, and a Histological Laboratory, furnished with eighteen Compound Microscopes, and with Cameras and Micrometers for accurate drawing. Cases of chemical re-agents, and all the necessary apparatus for the preparation and mounting of microscopic specimens, are provided. All the Laboratories are supplied with water, and all face the north, thus securing the most favorable light for microscopic work. Flowers are supplied from the large College greenhouse during the winter.

The collection illustrative of Botany includes, —

1. The Herbarium, containing upward of five thousand specimens, besides a full collection of the lowest Fungi.
2. A collection of woods, fruit, and of economic vegetable products.
3. Thirty-three charts, hand-painted; six Botanical Charts, by Prof. Henslow, of Edinburgh; fifty German Charts, by Kny.
4. The Botanical Model collection, being a series of thirty-four models of Phœnogamous Plants, and thirty-four models of Fungi, made by Auzoux, of Paris. Each part of the object represented is greatly magnified, and is separable from every other part.

4. ZOÖLOGICAL LABORATORY.

A new laboratory has been lately opened, which gives every facility for zoölogical investigation. Each student is provided with a case of re-agents, a dissecting and a compound microscope. For special demonstration, lenses of exceedingly high power are available.

The lecture-room adjoins the laboratory, and contains that portion of the zoölogical library which is most often in use.

Accessories which aid in the pursuit of the subject are,— the museum, a typical collection of both vertebrates and invertebrates; a considerable and increasing number of charts; a collection of models in wax, glass, or *papier maché*, including a manikin and models of separate vital organs.

5. MICROSCOPICAL LABORATORY.

There are in constant use, in the different departments, ninety-six Microscopes of various patterns, including a Polari-Microscope, and one especially adapted to the study of rock-sections. There is a large battery of objectives, ranging in power from one-twenty-fifth inch down, and a variety of accessory apparatus. Care has been taken to represent in this collection the best makers in Europe and America.

Members of the advanced classes, and special students who wish, may, in a weekly class, learn the general manipulation of the microscope and its various applications.

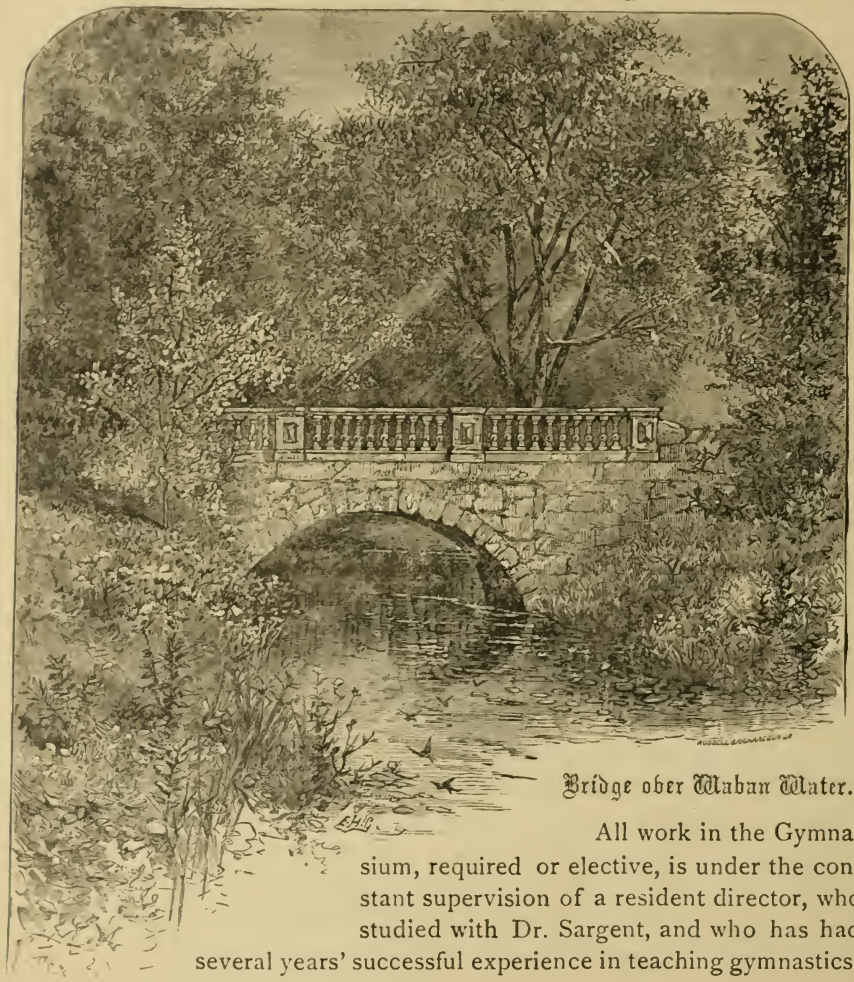
6. MATHEMATICAL MODELS.

The collection of Mathematical Models consists of a set of models in wood for use in Synthetic Geometry; seven Thread Models of Surfaces of the Second Order; five Card Models of the same, showing circular sections; and seventy-four Plaster Models of Surfaces of the Second and Higher Orders.

Gymnasium.

THE GYMNASIUM has been improved and fitted up under the direction of Dr. D. A. Sargent, director of Harvard Gymnasium, and, by the use of his system of physical training, is conducted on a strictly scientific basis, the amount and manner of exercise being carefully prescribed, and directed, according to the needs of each individual. The apparatus includes chest-weights, clubs, horizontal and parallel bars, rowing-machines, flying-rings,

inclined planes, and a great variety of mechanical arrangements for special work. There is an opportunity for those students who wish, to take special training, in addition to the work required by the College.



Bridge ober Waban Water.

All work in the Gymnasium, required or elective, is under the constant supervision of a resident director, who studied with Dr. Sargent, and who has had several years' successful experience in teaching gymnastics.

Societies.

The Microscopical Society affords opportunity for an exchange of results of work in the different departments of science, and of individual work. Meetings are held monthly, and the papers presented are illustrated by exhibitions of objects under microscopes, or by lantern projection.

The Shakspere Society was formed in 1876, and is a branch of the London Shakspere Society, whose publications it regularly receives. Its sessions are held once in three weeks.

The Beethoven Society is a choral organization, conducted by the Director of the School of Music. It is open to all students of this school, and to others who are able to sing ordinary music at sight. The weekly rehearsals are devoted to the study of part-songs and choruses by Abt, Gounod, Kienzl, Bennett, Möhring, Mendelssohn, Reinecke, Rheinberger, Rubinstein, Schubert, and others.

The Wellesley Christian Association is devoted to the promotion of religious life in the College, to arousing intelligent interest in social reforms, and to the spread of the gospel in all lands.

Domestic Department.

All students aid in some of the lighter domestic work of the family. The time thus occupied is not more than one hour daily, and does not interfere with the hours of study. The economy of this course should not be overlooked. It would be easier to hire a much larger number of servants than are now employed, and bear the expense of their wages and board with the accompanying waste; but it would be necessary in that case to make the price for board and tuition much larger than it now is. This would defeat one great object of the Trustees, which is, to give opportunities for higher education to young women of moderate means. The success of this plan in the College leads the Trustees to believe that the

students will cheerfully take their share in the easy and useful domestic work, when they understand that they are thus helping, in part, at least, to educate themselves. Experience in the well-known institutions in which this course has been pursued, has proved that the discipline of this domestic work, which unites all in one family as helpers for the common good, is invaluable in its influence upon character, and its preparation for social life.

Expenses.

The price of board and tuition, including heating and lights, for each student, regular or special, is $275 per year,— $175 payable on entrance, $100 on the first of January. Each student will also pay $5 per year for a general repair fund, and will be liable for special damages. The price for tuition alone is $75 per year. Checks or money-orders must be made payable to the order of Wellesley College.

That as many as possible may enjoy the benefits of the College, the charges are kept at the lowest possible point. Hence it must be clearly understood that in case of withdrawal during the year, unless for some providential reason that may seem to the Executive Committee to be adequate, the student has no claim for the return of any part of the money she has paid. Students can arrange for board at the College during the Christmas and Spring vacations at $6 per week.

EXTRA CHARGES FOR MUSIC LESSONS.

For private instruction, for the College year, on Piano, Organ, Violin, or in Vocal Music, two lessons per week	$100 00
One lesson per week	50 00
(Lessons forty-five minutes each.)	
For the same instruction, for the College year, — two half-hour lessons per week	75 00
Harmony, class of two, each student	40 00
class of three, each student	30 00
class of four, each student	25 00

Ensemble playing, class of three, each student	$35 00
Interpretation and Analysis, class of three, each student	35 00
Sight-singing	15 00

(Lessons forty-five minutes, weekly.)

All students pay for the use of Piano or Reed Organ, one period daily, for the year	10 00
For two periods daily	20 00
For three periods daily	30 00
Additional time in proportion.	
For use of the Pipe Organs, one period daily, for the year	15 00
For two periods, daily	30 00
Additional time in proportion.	

Lectures on the Theory and History of Music are free to candidates for the Musical Degree.

Charges for instruction on instruments not mentioned, will be fixed when the lessons are arranged.

EXTRA CHARGES FOR INSTRUCTION IN ART.

For one lesson per week for College year	$36 00
For two lessons per week for College year	66 00
For three lessons per week for College year	90 00

(The lessons are two and one-half hours in length.)

PECUNIARY ASSISTANCE TO STUDENTS.

There are twenty-four scholarships, the income of which is to be appropriated to aid deserving students.

Mrs. Caroline A. Wood has given $5,000 to establish a scholarship as a memorial of her deceased husband.

W. O. Grover, Esq., has given $5,000, which has been applied by the Trustees to establish the "Grover Scholarship."

D. M. Weston, Esq., has given $5,000 to found a scholarship, which has been named the "Weston Scholarship."

The "Northfield Seminary Scholarship" was founded by a gift of $5,000.

Mr. and Mrs. Durant founded the "Pauline A. Durant Scholarship" of $5,000.

Mr. V. C. Sweatman has given $5,000 to establish a scholarship, which has been named the "Sweatman Scholarship."

Mrs. E. W. J. Baker has founded a scholarship, called the "Walter M. Baker Memorial Scholarship."

Mr. Frank Wood has founded a $5,000 scholarship, named the "Annie M. Wood Scholarship."

Hon. Rufus S. Frost has founded a $5,000 scholarship.

Mr. and Mrs. A. W. Stetson have founded a $5,000 scholarship, which they have named the "Union Church Scholarship."

Mr. John H. Cheever has founded a $5,000 scholarship.

Mr. Samuel N. Brown, Jr., and Mrs. Ruth C. Brown have founded a $5,000 scholarship, called the "Florence N. Brown Memorial Scholarship."

Mr. and Mrs. A. N. Clark have founded a $5,000 scholarship, which is called the "Augsutus R. Clark Memorial Scholarship."

The "Durant Memorial Scholarship" of $5,000 has been founded by the officers, teachers, and students of Wellesley College, in honor of Henry F. Durant.

Four "Harriet Fowle Smith Scholarships" were founded by Mr. Durant, in memory of his mother.

The "Jane Topliff Memorial Scholarship" has been founded by a gift of $5,000.

The "Stone Educational Fund" of $25,000 provides for five scholarships.

The income of these twenty-four scholarships is appropriated yearly, under the direction of the Students' Aid Society, to help those who require assistance; but it is wholly insufficient to meet the wants of the numerous applicants.

THE STUDENTS' AID SOCIETY, OF WELLESLEY COLLEGE.

Contributions of any amount will be gladly received from those interested in helping poor girls who desire to obtain an education. There is no charity more useful than helping those who are trying to help themselves. It is hoped that all who are generously disposed will send their much-needed help to the Treasurer of the Society, Mrs. Pauline A. Durant.

More than $10,000 have been appropriated by this Society during the present year to assist faithful students. The funds collected are held and controlled by the Society. In some cases money is loaned to students to be repaid by them, without interest, whenever they are able to do so; in some cases assistance is given partly in gifts and partly in loans. All applications for assistance from the scholarship funds or from the "Students' Aid Society" must be made by letter, addressed to the Secretary, Mrs. Goodwin, 232 Clarendon Street, Boston.

Longfellow's Fountain.

WANTS OF THE COLLEGE.

We ask the attention of all who are interested in the higher education of women, to the immediate needs of the College. It is now established upon such a firm footing that we can, with confidence, appeal to the public for aid. It has been filled with students from its commencement. This year it has received 515 students.

The advanced courses of study, the watchful care of the students' health, the standard of character, refinement, and usefulness, are known throughout the country. Many of our students are already doing good work as teachers, and we have had the privilege, every year since the College opened, of sending one or more missionaries from among our students to the foreign field.

We ask all who appreciate the influence of learned and refined women to aid the College by gifts or legacies.

If the present low rates of board and tuition are to be maintained, there must be permanent endowments. Gifts or bequests of money to the Trustees, with authority to use the income to defray the general expenses of the College, are the most practical form of assistance. The bequest of $30,000 will endow a professorship.

The most pressing want is a laboratory-building, as the accommodations of the College are insufficient for the increasing requirements of the scientific departments. An astronomical observatory, properly equipped, is also an immediate necessity.

A large amount is needed for new scientific apparatus. The Art Gallery needs statues, pictures, engravings, models, and other works of art. The College has no debt, as the Trustees confine its expenses strictly to the means which are furnished. Permanent funds are carefully invested by the Finance Committee of the Trustees.

FORMS OF BEQUEST.

I give and bequeath to the Trustees of Wellesley College the sum of ——— thousand dollars, to be appropriated by the Trustees for the benefit of the College, in such manner as they shall think will be most useful.

I give and bequeath to the Trustees of Wellesley College the sum of ——— thousand dollars, to be safely invested by them, and called the ——— Scholarship Fund. The interest of this fund shall be applied to aid deserving students in Wellesley College.

I give and bequeath to the Trustees of Wellesley College the sum of ——— thousand dollars, to be safely invested by them, and called the ——— Endowment Fund. The interest shall be applied to the payment of the salaries of teachers in Wellesley College, as the Trustees shall deem expedient.

As an expression of the spirit in which the institution has been founded, we quote the inscription in the Bible placed in the corner-stone of the College:—

This building is humbly dedicated to our heavenly Father, with the hope and prayer that he may always be first in everything in this institution; that his Word may be faithfully taught here, and that he will use it as a means of leading precious souls to the Lord Jesus Christ. "Except the Lord build the house, they labor in vain that build it" (Psalm cxxvii).

"Thine, O Lord, is the greatness, and the power, and the glory, and the victory, and the majesty: for all that is in the heaven and in the earth is thine: thine is the kingdom, O Lord, and thou art exalted as head above all. Both riches and honor come of thee, and thou reignest over all; and in thine hand is power and might; and in thine hand it is to make great, and to give strength unto all. Now, therefore, our God, we thank thee and praise thy glorious name. But who am I, and who is my people, that we should be able to offer so willingly after this sort? for all things come of thee, and of thine own have we given thee. For we are strangers before thee, and sojourners, as were all our fathers: our days on the earth are as a shadow, and there is none abiding.

"O Lord our God, all this store that we have prepared to build thee an house for thine holy name cometh of thine hand, and is all thine own" (1 Chron. xxix. 11–16).

The following sentences are from the Deed of Gift of Stone Hall, erected by Mrs. Valeria G. Stone, in 1880: —

I wish the building to be always regarded and used as one that has been *sacredly consecrated to the promotion of a truly Christian education, and the development of Christian character and life.*

It is my hope and prayer that the young ladies who in the coming years may enjoy the benefits of "Stone Hall," may learn as the most important of all lessons to become *noble Christian women,* and devote their powers and their attainments to earnest lives of Christian usefulness.

I have often and sadly observed the pitiable worthlessness, both to themselves and others, of the lives of women when given up to selfish frivolity, or wasted in the pursuit of mere personal enjoyment. And often, too, have I noted, with admiration and gratitude to God, the saintly beauty and beneficent power of the lives of truly Christian women, whose learning has been too genuine for skeptical conceit, and whose refinement has been too thorough for fastidious selfishness; but whose highest aim has been simply to do, faithfully and cheerfully, the work which God, in his providence, had assigned them, wherever and whatever it might be.

Such are the women whom, for their own sake and the world's, I most earnestly desire to aid in training,— women who will always regard *a symmetrical Christian character as the most radiant crown of womanhood,* and a life spent in humble imitation of Him who "*came not to be ministered unto, but to minister,*" as the noblest of all aims.

With this expression of my wish and prayer, and with the earnest hope that these views may always find active sympathy in those to whom the work of instruction in Wellesley College shall be intrusted, I hereby, with gratitude to God for the power and the opportunity, commit to the Trustees "Stone Hall," erected and furnished, as a sacred trust, to be held and used by them for the purpose indicated — *the Christian education of women for their more efficient service of the world and of God.*

Summary of Students by Classes.

Fifth year	16	Resident Graduates	9
Seniors	53	Candidates for Bachelors' Degrees,	346
Juniors	74	Non-Candidates for Degrees	160
Sophomores	88		
Freshman	115	Total Number 1884-'85	515
		Non-Resident Candidates for Masters'	
Total	346	Degrees	16

NUMBER IN SCHOOL OF MUSIC BY DEPARTMENTS.

Piano	88	Piano and Harmony	4
Voice	29	Guitar	1
Organ	4	Guitar and Voice	1
Piano and Voice	13		
Piano, Organ, and Harmony	1		143
Voice and Harmony	1	Beethoven Society	58
Piano, Voice, and Harmony	1		

NUMBER IN SCHOOL OF ART BY CLASSES.

Fifth Year	4	First Year — required work	120
Fourth Year	5	Class in Water-colors	50
Third Year	14		
Second Year	20		213

SUMMARY OF STUDENTS BY STATES AND COUNTRIES.

Massachusetts	128	Indiana	3
New York	80	Texas	3
Pennsylvania	35	North Carolina	2
Illinois	29	Virginia	2
New Jersey	25	Maryland	2
Maine	24	Oregon	2
Ohio	24	Nebraska	2
Vermont	23	Alabama	1
Connecticut	22	South Carolina	1
New Hampshire	20	Utah	1
Michigan	15	District of Columbia	1
Minnesota	13	New Brunswick	1
Rhode Island	12	Canada	1
Iowa	8	Mexico	1
Missouri	7	England	2
Kentucky	7	Turkey	1
Kansas	5	India	4
Tennessee	4		
Wisconsin	4	Total, 1884-'85	515

Degrees Conferred at Sixth Annual Commencement, '84.

Master of Arts.

Emily Norcross (Wellesley, '80), *Wellesley Hills, Mass.*
Upon examinations in Greek, Latin, and German.

Mrs. Fannie M. (Robinson) Johnson (Wellesley, '79), *Berlin, Germany.*
Thesis, "Goethe's Iphigenia Vergleichen mit der des Euripides."

Bachelor of Arts.

FIVE YEARS' LITERARY AND MUSICAL COURSE.

Ollie Amelia Easton, *Lanesboro, Minn.* | Clara May Skeele, *Chicago, Ill.*
Cornelia Hepzibah Bulkley Rogers, *Bridgeport, Conn.*

FOUR YEARS' COURSE.

Alma Eveleth Aumack, *Tom's River, N. J.*
Helen Maria Barrett, *Rochester, N. Y.*
Annie Louise Bushnell, *Cleveland, O.*
Frances Nickels Campbell, *Cherryfield, Me.*
Mary Chase, *Atlanta, Ga.*
Charlotte Howard Conant, *Greenfield, Mass.*
Henriette Cone, *Monroeville, Ohio.*
Caroline Jewell Cook, *Evansville, Ind.*
Maud Augusta Dean, *Owego, N. Y.*
Bertha Denis, *St. Louis, Mo.*
Elsie Marion Dwyer, *Grafton, Mass.*
Julia Ada Ellis, *Natick, Mass.*
Harriet Louise Ford, *Wellesley Hills, Mass.*
Rebecca Bryan Forseman, *Johnsonsburg, N. J.*
Mary Anna Fuller, *Berkshire, Mass.*
Laura Matilda Halter, *Hamburg, N. Y.*
Margaret Hill, *St. Albans, Vt.*
Mary Haseltine Jefferds, *Windham, Vt.*
Helen Matilda Jewett, *Madras, India.*

ELIZABETH SARAH JONES, *Dorchester, Mass.*
GRACE KILBURN, *Rutland, Vt.*
ANNA VIOLA LAROSE, *Logansport, Ind.*
MARTHA ERNESTINE MATHEWS, *Burlington, Vt.*
MARY MERIAM, *Philippopolis, Turkey.*
CAROLINE BOLES MORSE, *Charlestown, Mass.*
IDA BELLE NEWKIRK, *Sedalia, Mo.*
HESTER DEANE NICHOLS, *Freetown, Mass.*
FRANCES TAYLOR PEARSONS, *Holyoke, Mass.*
SARAH MARIA POTTER, *Glens Falls, N. Y.*
CLARA BREWSTER POTWIN, *Hartford, Conn.*
SARAH ETHEL RAWSON, *Hudson, Mass.*
JESSIE REID, *Spencer, Ind. Ter.*
HELEN JOSEPHINE SANBORN, *Boston, Mass.*
STELLA STICKNEY, *Great Falls, N. H.*
AGNES ELIZABETH STUART, *Skaneateles, N. Y.*
DORA WELLS, *Montpelier, Vt.*
FRANCES LOUISE WHITTLESEY, *Rochester, N Y.*
NELLIE MARIA WRIGHT, *Natick, Mass.*

BACHELOR OF SCIENCE.

ANNIE JUMP CANNON, *Dover, Del.*
FLORA ALICE CROUCH, *Erie, Penn.*
HARRIET ELIZABETH CROUCH, *Erie, Penn.*
ELIZABETH SHURTLEFF CUSHMAN, *Lakeville, Mass.*
ELLEN AMELIA VINTON, *Southbridge, Mass.*
JESSIE MARTHA WILCOX, *Sandusky, Ohio.*
MARY HALE YOUNG, *Dover, N. H.*

GRADUATES OF SCHOOL OF MUSIC.

OLLIE AMELIA EASTON, *Lanesboro, Minn.*
MARY MCMARTIN, *Schenectady, N. Y.*

List of Text-Books

RECOMMENDED TO STUDENTS PREPARING FOR WELLESLEY COLLEGE.

Jones's First Lessons in Latin	*S. C. Griggs & Co., Chicago.*
Allen and Greenough's Grammar Allen and Greenough's Cæsar, Cicero, Virgil	*Ginn, Heath & Co., Boston.*
Harkness' Latin Grammar Harkness' Cæsar, Cicero, Virgil	*D. Appleton & Co., New York.*
Latin Prose Composition, by E. Jones	*S. C. Griggs & Co., Chicago.*
Merivale's General History of Rome	*D Appleton & Co., New York.*
First Lessons in Greek, by J. R. Boise	*S. C. Griggs & Co., Chicago.*
White's First Lessons in Greek	*Ginn, Heath & Co., Boston.*
Greek Prose Composition, by E. Jones	*S. C. Griggs & Co., Chicago.*
Hadley's Greek Grammar	*D. Appleton & Co., New York.*
Goodwin's Greek Grammar	*Ginn, Heath & Co., Boston.*
Xenophon's Anabasis, by J. R. Boise	*D. Appleton & Co., New York.*
Homer's Iliad, by J. R Boise	*S. C. Griggs & Co., Chicago.*
Homer's Iliad, by R. P. Keep	*J. Allyn, Boston.*
W. Smith's History of Greece	*Harper Brothers, New York.*
Olney's Complete School Algebra Olney's University Algebra	*Sheldon & Co., New York.*
Chauvenet's Elementary Geometry	*J. B. Lippincott & Co. Philadelphia.*
Deutsche Grammatik für Amerikaner, by Wenckebach-Schrakamp	*J. Schrakamp*, 711 *Fifth Ave., New York City.*
Das Deutsche Buch, by Van Daell-Schrakamp	*Carl Schoenhof, Boston.*
Immensee, by Storm	*Carl Schoenhof, Boston.*
Buckheim's Deutsche Lyrik	*Macmillan & Co., New York.*
Sauveur's Grammaire pour les Anglais	*Carl Schoenhof, Boston.*
Sauveur's Causeries avec mes Elèves	*Carl Schoenhof, Boston.*
Grammaire de 3ième Année, par Larive et Fleury	*Carl Schoenhof, Boston, or W. Christern, New York.*
Hennequin's Lessons in Idiomatic French	*D. Appleton & Co , New York.*
Les Auteurs Contemporains, par Mme. L. Alliot-Boymier	*H. Holt & Co , New York.*
Hart's Composition and Rhetoric	*Eldredge & Bro., Philadelphia.*
Principles of Rhetoric, A. S. Hills	*Harper Brothers, New York.*
Guyot's Physical Geography	*Scribner, Armstrong & Co , New York.*
Higginson's History of the United States	*Lee & Shepard, Boston.*

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Dana Hall.

This school, in the village of Wellesley, is a fitting-school for Wellesley College. One of its Associate Principals was for six years a teacher in Wellesley College; Greek and Latin are under the direction of one of its graduates, while the courses in Music and in Art are arranged with special reference to the corresponding courses at the College.

Lectures and Concerts at Wellesley College are open to the members of the School.

Pupils completing the Preparatory Course may enter the College without further examination.

For circulars, and other information, address the Principals,

JULIA A. EASTMAN,
SARAH P. EASTMAN,
Wellesley, Mass.

The Wellesley School,

PHILADELPHIA.

The instruction is under the charge of teachers from Wellesley College, selected by the College Faculty. Everything possible is done to secure the health, comfort, and happiness of the pupils.

Those who satisfactorily complete the College Preparatory Course, may enter Wellesley College without further examination.

Music is made a specialty.

PRINCIPALS.

Miss ELIZABETH B. ROOT, B.A..,	In charge of the College Preparatory Department.
Miss CORDELIA BRITTINGHAM,	In charge of the English and Scientific Department.
Miss S. I. MORGAN, ...	In charge of the Musical Department.

HOME SUPERINTENDENT.

MRS. M. E. W. ROOT.

The School is under the personal supervision of Rev. J. R. Miller, D.D.

Opportunities are given to attend Lectures and Concerts. Instruction in the Sciences and Higher English branches may be elected.

For further information, address

Miss ELIZABETH B. ROOT,
2027 *Chestnut Street, Philadelphia, Penn.*

TEACHERS' REGISTRY.

SUPERINTENDENTS OF SCHOOLS, AND OTHERS,

WISHING

RELIABLE TEACHERS OF GREEK, LATIN, GERMAN, FRENCH, MATHEMATICS, PHYSICAL AND NATURAL SCIENCES, LITERATURE, AND HISTORY,

For Colleges, Seminaries, Academies, High Schools, Grammar Schools, etc.,

May get full and confidential information of the qualifications, ability, and character of teachers educated at the College.

In the Teachers' Department are many who have had successful experience in teaching in High and Grammar Schools and Seminaries.

Graduates are fitted for high positions, and as teachers of Greek, Latin, Mathematics, Physical and Natural Sciences, have been unusually successful.

All our students who wish situations as teachers, have the aid of the Teachers' Registry free.

Address inquiries and applications.

TEACHERS' REGISTRY,

Wellesley College, Wellesley, Mass.